

## CLAIMS

1. A polymerization initiator composition for a polymerizable monomer constituting an adhesive composition  
5 for dental use, comprising:

100 parts by weight of (A) at least one organic boron compound selected from the group consisting of a trialkyl boron, alkoxyalkyl boron, dialkyl borane, monocyclic or bicyclic compound having a boron atom as a hetero atom and  
10 partially oxidated trialkyl boron;

5 to 40 parts by weight of (B) an aprotic solvent having a boiling point of 50 to 120°C; and

0.2 to 5 parts by weight of (C) an alcohol having a boiling point of 60 to 180°C.

15

2. The polymerization initiator composition according to claim 1, wherein the aprotic solvent (B) is at least one solvent selected from the group consisting of an alkane, ketone, ether and ester.

20

3. The polymerization initiator composition according to claim 1 or 2, wherein the alcohol (C) is an alcohol having 4 or less carbon atoms.

25 4. The polymerization initiator composition according to any one of claims 1 to 3, wherein the organic boron compound (A) is partially oxidated tributyl boron, the aprotic solvent (B) is hexane, and the alcohol (C) is ethanol.

30 5. An adhesive composition for dental or surgical use, comprising 30 to 100 parts by weight of (a) a polymerizable monomer, 0 to 70 parts by weight of (b) a (meth)acrylate polymer, and 1 to 20 parts by weight of (c) the polymerization initiator composition of any one of claims 1 to 4, the total

of the polymerizable monomer (a) and the (meth)acrylate polymer (b) being 100 parts by weight.

6. The adhesive composition for dental or surgical use  
5 according to claim 5, wherein the polymerizable monomer (a) is a (meth)acrylate or a combination of a (meth)acrylate and a polymerizable monomer having an acid group.

7. The adhesive composition for dental or surgical use  
10 according to claim 5 or 6, wherein the (meth)acrylate polymer (b) is at least one polymer selected from the group consisting of a homopolymer of an alkyl (meth)acrylate, a copolymer of alkyl (meth)acrylates, a copolymer of an alkyl  
(meth)acrylate and another polymerizable monomer, a  
15 copolymer of an alkyl (meth)acrylate and an alkylene di(meth)acrylate, and a copolymer of an alkyl (meth)acrylate and a diene monomer.